

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Savannah

5102 LaRoche Avenue

Savannah, GA 31404

Tel: (912)354-7858

TestAmerica Job ID: 680-118167-1

Client Project/Site: Gold King Mine - Region 8

For:

Weston Solutions, Inc.

1435 Garrison Street

Suite 100

Lakewood, Colorado 80215

Attn: Moira Pryhoda



Authorized for release by:

10/26/2015 3:42:48 PM

Sheila Hoffman, Project Manager II

(912)354-7858 e.3004

sheila.hoffman@testamericainc.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Method Summary

Client: Weston Solutions, Inc.

Project/Site: Gold King Mine - Region 8

TestAmerica Job ID: 680-118167-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL SAV
200.7 Rev 4.4	Metals (ICP)	EPA	TAL SAV
200.8	Metals (ICP/MS)	EPA	TAL SAV
2340B-2011	Total Hardness (as CaCO ₃) by calculation	SM	TAL SAV
245.1	Mercury (CVAA)	EPA	TAL SAV
2320B-2011	Alkalinity, Total	SM	TAL SAV
4500 H+ B-2011	pH	SM	TAL SAV

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Sample Summary

Client: Weston Solutions, Inc.

Project/Site: Gold King Mine - Region 8

TestAmerica Job ID: 680-118167-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-118167-1	GKMGSTO_102215_1000	Water	10/22/15 10:00	10/23/15 09:44
680-118167-2	A72_102215_1215	Water	10/22/15 12:15	10/23/15 09:44
680-118167-3	GKMGSTI_102215_0910	Water	10/22/15 09:10	10/23/15 09:44

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TestAmerica Savannah

Definitions/Glossary

Client: Weston Solutions, Inc.

Project/Site: Gold King Mine - Region 8

TestAmerica Job ID: 680-118167-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
E	Result exceeded calibration range.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
E	Result exceeded calibration range.
*	LCS or LCSD is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Weston Solutions, Inc.
Project/Site: Gold King Mine - Region 8

TestAmerica Job ID: 680-118167-1

Job ID: 680-118167-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Weston Solutions, Inc.

Project: Gold King Mine - Region 8

Report Number: 680-118167-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT

The samples were received on 10/23/2015; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 0.8 C.

DISSOLVED METALS (ICP)

Samples GKGSTO_102215_1000 (680-118167-1), A72_102215_1215 (680-118167-2) and GKGSTI_102215_0910 (680-118167-3) were analyzed for dissolved metals (ICP) in accordance with EPA Method 200.7. The samples were prepared on 10/23/2015 and analyzed on 10/23/2015 and 10/24/2015.

Several analytes failed the recovery criteria low for the MS of sample GKGSTO_102215_1000MS (680-118167-1) in batch 680-407249.

For the MSD of sample GKGSTO_102215_1000MSD (680-118167-1) in batch 680-407249, Calcium, Calcium, Dissolved, Magnesium and Magnesium, Dissolved failed the recovery criteria low. Potassium and Potassium, Dissolved failed the recovery criteria high. Also, Several analytes exceeded the RPD limit.

Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL METALS (ICP)

Samples GKGSTO_102215_1000 (680-118167-1), A72_102215_1215 (680-118167-2) and GKGSTI_102215_0910 (680-118167-3) were analyzed for total metals (ICP) in accordance with EPA Method 200.7. The samples were prepared and analyzed on 10/23/2015.

Potassium and Potassium, Dissolved failed the recovery criteria high for LCS 680-407108/2-A. The data have been flagged and reported.

Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED METALS (ICPMS)

Samples GKGSTO_102215_1000 (680-118167-1), A72_102215_1215 (680-118167-2) and GKGSTI_102215_0910 (680-118167-3) were analyzed for dissolved metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared and analyzed on 10/23/2015.

Several analytes failed the recovery criteria low for the MS of sample GKGSTO_102215_1000MS (680-118167-1) in batch 680-407248.

Manganese and Manganese, Dissolved failed the recovery criteria low for the MSD of sample GKGSTO_102215_1000MSD

Case Narrative

Client: Weston Solutions, Inc.

Project/Site: Gold King Mine - Region 8

TestAmerica Job ID: 680-118167-1

Job ID: 680-118167-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

(680-118167-1) in batch 680-407248. Several analytes exceeded the RPD limit.

Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL METALS (ICPMS)

Samples GKGSTO_102215_1000 (680-118167-1), A72_102215_1215 (680-118167-2) and GKGSTI_102215_0910 (680-118167-3) were analyzed for total metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared and analyzed on 10/23/2015.

One or more Internal standard responses were outside the lower acceptance limits for the following sample(s):. Low internal standard recoveries could possibly bias the results high.

GKGSTI_102215_0910 (680-118167-3), (680-118167-B-1-D MSD) and (680-118167-B-1-B PDS)

One or more of the following analytes recovered above the linear range of the calibration: manganese, copper and zinc. The data has been qualified as an estimated value and reported.

GKGSTO_102215_1000 (680-118167-1), GKGSTI_102215_0910 (680-118167-3), (680-118167-B-1-C MS), (680-118167-B-1-D MSD) and (680-118167-B-1-B PDS)

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED MERCURY (CVAA)

Samples GKGSTO_102215_1000 (680-118167-1), A72_102215_1215 (680-118167-2) and GKGSTI_102215_0910 (680-118167-3) were analyzed for dissolved mercury (CVAA) in accordance with EPA Method 245.1. The samples were prepared and analyzed on 10/23/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL MERCURY

Samples GKGSTO_102215_1000 (680-118167-1), A72_102215_1215 (680-118167-2) and GKGSTI_102215_0910 (680-118167-3) were analyzed for total mercury in accordance with EPA Method 245.1. The samples were prepared and analyzed on 10/23/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

ALKALINITY

Samples GKGSTO_102215_1000 (680-118167-1), A72_102215_1215 (680-118167-2) and GKGSTI_102215_0910 (680-118167-3) were analyzed for alkalinity in accordance with SM 2320B. The samples were analyzed on 10/23/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

ANIONS BY ION CHROMATOGRAPHY (28 DAY)

Samples GKGSTO_102215_1000 (680-118167-1), A72_102215_1215 (680-118167-2) and GKGSTI_102215_0910 (680-118167-3) were analyzed for Anions by Ion Chromatography (28 Day) in accordance with EPA Method 300.0. The samples were analyzed on 10/23/2015.

Sulfate failed the recovery criteria low for the MS of sample A72_102215_1215MS (680-118167-2) in batch 680-407149.

Sulfate failed the recovery criteria low for the MSD of sample A72_102215_1215MSD (680-118167-2) in batch 680-407149.

The presence of the '4' qualifier indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

Refer to the QC report for details.

Samples GKGSTO_102215_1000 (680-118167-1)[2X], GKGSTO_102215_1000 (680-118167-1)[50X], A72_102215_1215

Case Narrative

Client: Weston Solutions, Inc.

Project/Site: Gold King Mine - Region 8

TestAmerica Job ID: 680-118167-1

Job ID: 680-118167-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

(680-118167-2)[5X], GKGSTI_102215_0910 (680-118167-3)[2X] and GKGSTI_102215_0910 (680-118167-3)[50X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

ANIONS BY ION CHROMATOGRAPHY (48 HOUR)

Samples GKGSTO_102215_1000 (680-118167-1), A72_102215_1215 (680-118167-2) and GKGSTI_102215_0910 (680-118167-3) were analyzed for Anions by Ion Chromatography (48 Hour) in accordance with EPA Method 300.0. The samples were analyzed on 10/23/2015.

Samples GKGSTO_102215_1000 (680-118167-1)[2X] and GKGSTI_102215_0910 (680-118167-3)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL HARDNESS (AS CaCO₃) BY CALCULATION

Samples GKGSTO_102215_1000 (680-118167-1), A72_102215_1215 (680-118167-2) and GKGSTI_102215_0910 (680-118167-3) were analyzed for total hardness (as CaCO₃) by calculation in accordance with SM 2340B. The samples were analyzed on 10/24/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

CORROSIVITY (PH)

Samples GKGSTO_102215_1000 (680-118167-1), A72_102215_1215 (680-118167-2) and GKGSTI_102215_0910 (680-118167-3) were analyzed for corrosivity (pH) in accordance with SM 4500 H+ B. The samples were analyzed on 10/23/2015.

This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. This sample(s) was performed in the laboratory outside the 15 minute timeframe.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Client Sample Results

Client: Weston Solutions, Inc.

Project/Site: Gold King Mine - Region 8

TestAmerica Job ID: 680-118167-1

Client Sample ID: GKGSTO_102215_1000

Lab Sample ID: 680-118167-1

Matrix: Water

Date Collected: 10/22/15 10:00

Date Received: 10/23/15 09:44

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.52	J	1.0	0.40	mg/L			10/23/15 14:35	2
Nitrate as N	0.046	U	0.10	0.046	mg/L			10/23/15 11:37	2
Fluoride	7.4		0.20	0.080	mg/L			10/23/15 14:35	2
Sulfate	1400		50	20	mg/L			10/23/15 16:02	50

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1300		200	24	ug/L			10/23/15 11:37	10/23/15 17:45
Calcium	470000		500	25	ug/L			10/23/15 11:37	10/23/15 17:45
Iron	2700		50	17	ug/L			10/23/15 11:37	10/23/15 17:45
Magnesium	17000		500	33	ug/L			10/23/15 11:37	10/23/15 17:45
Potassium	2300	*	1000	17	ug/L			10/23/15 11:37	10/23/15 17:45
Sodium	7400		1000	480	ug/L			10/23/15 11:37	10/23/15 17:45

Method: 200.7 Rev 4.4 - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum, Dissolved	570	F1 F2	200	24	ug/L			10/23/15 11:37	10/23/15 17:05
Calcium, Dissolved	480000		500	25	ug/L			10/23/15 11:37	10/23/15 17:05
Iron, Dissolved	170	F1 F2	50	17	ug/L			10/23/15 11:37	10/23/15 17:05
Magnesium, Dissolved	18000		500	33	ug/L			10/23/15 11:37	10/23/15 17:05
Potassium, Dissolved	2400	* F1 F2	1000	17	ug/L			10/23/15 11:37	10/23/15 17:05
Sodium, Dissolved	7900	F1	1000	480	ug/L			10/23/15 11:37	10/23/15 17:05

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	U	1.0	0.40	ug/L			10/23/15 11:37	10/23/15 17:12
Arsenic	0.37	U	1.0	0.37	ug/L			10/23/15 11:37	10/23/15 17:12
Barium	7.8		2.0	0.14	ug/L			10/23/15 11:37	10/23/15 17:12
Beryllium	0.36	J	0.40	0.15	ug/L			10/23/15 11:37	10/23/15 17:12
Cadmium	4.2		0.50	0.043	ug/L			10/23/15 11:37	10/23/15 17:12
Chromium	1.0	U	2.0	1.0	ug/L			10/23/15 11:37	10/23/15 17:12
Cobalt	8.7		0.40	0.12	ug/L			10/23/15 11:37	10/23/15 17:12
Copper	170		1.0	0.50	ug/L			10/23/15 11:37	10/23/15 17:12
Lead	0.80		0.30	0.060	ug/L			10/23/15 11:37	10/23/15 17:12
Manganese	11000	E	2.5	1.2	ug/L			10/23/15 11:37	10/23/15 17:12
Molybdenum	0.59	J	1.0	0.45	ug/L			10/23/15 11:37	10/23/15 17:12
Nickel	7.8		1.0	0.40	ug/L			10/23/15 11:37	10/23/15 17:12
Selenium	0.58	U	2.0	0.58	ug/L			10/23/15 11:37	10/23/15 17:12
Silver	0.10	U	1.0	0.10	ug/L			10/23/15 11:37	10/23/15 17:12
Thallium	0.16	J	0.20	0.10	ug/L			10/23/15 11:37	10/23/15 17:12
Vanadium	0.46	J	1.0	0.30	ug/L			10/23/15 11:37	10/23/15 17:12
Zinc	750		20	2.8	ug/L			10/23/15 11:37	10/23/15 17:12

Method: 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	0.40	U F1 F2	1.0	0.40	ug/L			10/23/15 11:37	10/23/15 16:37
Arsenic, Dissolved	0.37	U F1 F2	1.0	0.37	ug/L			10/23/15 11:37	10/23/15 16:37
Barium, Dissolved	8.8	F1 F2	2.0	0.14	ug/L			10/23/15 11:37	10/23/15 16:37
Beryllium, Dissolved	0.15	U F1 F2	0.40	0.15	ug/L			10/23/15 11:37	10/23/15 16:37
Cadmium, Dissolved	2.8	F1 F2	0.50	0.043	ug/L			10/23/15 11:37	10/23/15 16:37

TestAmerica Savannah

Client Sample Results

Client: Weston Solutions, Inc.

Project/Site: Gold King Mine - Region 8

TestAmerica Job ID: 680-118167-1

Client Sample ID: GKGSTO_102215_1000

Lab Sample ID: 680-118167-1

Matrix: Water

Date Collected: 10/22/15 10:00

Date Received: 10/23/15 09:44

Method: 200.8 - Metals (ICP/MS) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, Dissolved	1.0	U F1 F2	2.0	1.0	ug/L		10/23/15 11:37	10/23/15 16:37	1
Cobalt, Dissolved	6.5	F1 F2	0.40	0.12	ug/L		10/23/15 11:37	10/23/15 16:37	1
Copper, Dissolved	13	F1 F2	1.0	0.50	ug/L		10/23/15 11:37	10/23/15 16:37	1
Lead, Dissolved	0.24	J F1 F2	0.30	0.060	ug/L		10/23/15 11:37	10/23/15 16:37	1
Manganese, Dissolved	12000	E	2.5	1.2	ug/L		10/23/15 11:37	10/23/15 16:37	1
Molybdenum, Dissolved	0.70	J F1 F2	1.0	0.45	ug/L		10/23/15 11:37	10/23/15 16:37	1
Nickel, Dissolved	8.4	F1 F2	1.0	0.40	ug/L		10/23/15 11:37	10/23/15 16:37	1
Selenium, Dissolved	0.58	U F1 F2	2.0	0.58	ug/L		10/23/15 11:37	10/23/15 16:37	1
Silver, Dissolved	0.10	U F1 F2	1.0	0.10	ug/L		10/23/15 11:37	10/23/15 16:37	1
Thallium, Dissolved	0.20	F1 F2	0.20	0.10	ug/L		10/23/15 11:37	10/23/15 16:37	1
Vanadium, Dissolved	0.30	U F1 F2	1.0	0.30	ug/L		10/23/15 11:37	10/23/15 16:37	1
Zinc, Dissolved	91	F1	20	2.8	ug/L		10/23/15 11:37	10/23/15 16:37	1

Method: 2340B-2011 - Total Hardness (as CaCO₃) by calculation

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Hardness	1200			3.3	mg/L			10/24/15 11:36	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.080	U	0.20	0.080	ug/L		10/23/15 11:24	10/23/15 16:48	1

Method: 245.1 - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	0.080	U	0.20	0.080	ug/L		10/23/15 11:24	10/23/15 17:10	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.90	HF			SU			10/23/15 15:06	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	8.9		5.0	5.0	mg/L			10/23/15 15:06	1

Client Sample ID: A72_102215_1215

Lab Sample ID: 680-118167-2

Matrix: Water

Date Collected: 10/22/15 12:15

Date Received: 10/23/15 09:44

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.4		0.50	0.20	mg/L			10/23/15 14:50	1
Nitrate as N	0.092		0.050	0.023	mg/L			10/23/15 11:52	1
Fluoride	0.60		0.10	0.040	mg/L			10/23/15 14:50	1
Sulfate	190		5.0	2.0	mg/L			10/23/15 16:17	5

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	2000		200	24	ug/L		10/23/15 11:37	10/23/15 17:50	1
Calcium	72000		500	25	ug/L		10/23/15 11:37	10/23/15 17:50	1
Iron	3300		50	17	ug/L		10/23/15 11:37	10/23/15 17:50	1
Magnesium	5100		500	33	ug/L		10/23/15 11:37	10/23/15 17:50	1
Potassium	910	J *	1000	17	ug/L		10/23/15 11:37	10/23/15 17:50	1
Sodium	2800		1000	480	ug/L		10/23/15 11:37	10/23/15 17:50	1

TestAmerica Savannah

Client Sample Results

Client: Weston Solutions, Inc.

Project/Site: Gold King Mine - Region 8

TestAmerica Job ID: 680-118167-1

Client Sample ID: A72_102215_1215

Lab Sample ID: 680-118167-2

Matrix: Water

Date Collected: 10/22/15 12:15

Date Received: 10/23/15 09:44

Method: 200.7 Rev 4.4 - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum, Dissolved	1800		200	24	ug/L		10/23/15 11:37	10/23/15 17:19	1
Calcium, Dissolved	72000		500	25	ug/L		10/23/15 11:37	10/23/15 17:19	1
Iron, Dissolved	3000		50	17	ug/L		10/23/15 11:37	10/23/15 17:19	1
Magnesium, Dissolved	5100		500	33	ug/L		10/23/15 11:37	10/23/15 17:19	1
Potassium, Dissolved	910 J *		1000	17	ug/L		10/23/15 11:37	10/23/15 17:19	1
Sodium, Dissolved	2900		1000	480	ug/L		10/23/15 11:37	10/23/15 17:19	1

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	U	1.0	0.40	ug/L		10/23/15 11:37	10/23/15 17:16	1
Arsenic	0.94 J		1.0	0.37	ug/L		10/23/15 11:37	10/23/15 17:16	1
Barium	25		2.0	0.14	ug/L		10/23/15 11:37	10/23/15 17:16	1
Beryllium	0.30 J		0.40	0.15	ug/L		10/23/15 11:37	10/23/15 17:16	1
Cadmium	1.6		0.50	0.043	ug/L		10/23/15 11:37	10/23/15 17:16	1
Chromium	1.0 U		2.0	1.0	ug/L		10/23/15 11:37	10/23/15 17:16	1
Cobalt	6.2		0.40	0.12	ug/L		10/23/15 11:37	10/23/15 17:16	1
Copper	44		1.0	0.50	ug/L		10/23/15 11:37	10/23/15 17:16	1
Lead	5.0		0.30	0.060	ug/L		10/23/15 11:37	10/23/15 17:16	1
Manganese	1400		2.5	1.2	ug/L		10/23/15 11:37	10/23/15 17:16	1
Molybdenum	0.93 J		1.0	0.45	ug/L		10/23/15 11:37	10/23/15 17:16	1
Nickel	4.4		1.0	0.40	ug/L		10/23/15 11:37	10/23/15 17:16	1
Selenium	0.58 U		2.0	0.58	ug/L		10/23/15 11:37	10/23/15 17:16	1
Silver	0.10 U		1.0	0.10	ug/L		10/23/15 11:37	10/23/15 17:16	1
Thallium	0.10 U		0.20	0.10	ug/L		10/23/15 11:37	10/23/15 17:16	1
Vanadium	0.81 J		1.0	0.30	ug/L		10/23/15 11:37	10/23/15 17:16	1
Zinc	610		20	2.8	ug/L		10/23/15 11:37	10/23/15 17:16	1

Method: 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	0.40	U	1.0	0.40	ug/L		10/23/15 11:37	10/23/15 16:57	1
Arsenic, Dissolved	0.77 J		1.0	0.37	ug/L		10/23/15 11:37	10/23/15 16:57	1
Barium, Dissolved	25		2.0	0.14	ug/L		10/23/15 11:37	10/23/15 16:57	1
Beryllium, Dissolved	0.27 J		0.40	0.15	ug/L		10/23/15 11:37	10/23/15 16:57	1
Cadmium, Dissolved	1.6		0.50	0.043	ug/L		10/23/15 11:37	10/23/15 16:57	1
Chromium, Dissolved	1.0 U		2.0	1.0	ug/L		10/23/15 11:37	10/23/15 16:57	1
Cobalt, Dissolved	6.1		0.40	0.12	ug/L		10/23/15 11:37	10/23/15 16:57	1
Copper, Dissolved	38		1.0	0.50	ug/L		10/23/15 11:37	10/23/15 16:57	1
Lead, Dissolved	4.1		0.30	0.060	ug/L		10/23/15 11:37	10/23/15 16:57	1
Manganese, Dissolved	1400		2.5	1.2	ug/L		10/23/15 11:37	10/23/15 16:57	1
Molybdenum, Dissolved	0.92 J		1.0	0.45	ug/L		10/23/15 11:37	10/23/15 16:57	1
Nickel, Dissolved	4.4		1.0	0.40	ug/L		10/23/15 11:37	10/23/15 16:57	1
Selenium, Dissolved	0.58 U		2.0	0.58	ug/L		10/23/15 11:37	10/23/15 16:57	1
Silver, Dissolved	0.10 U		1.0	0.10	ug/L		10/23/15 11:37	10/23/15 16:57	1
Thallium, Dissolved	0.10 U		0.20	0.10	ug/L		10/23/15 11:37	10/23/15 16:57	1
Vanadium, Dissolved	0.74 J		1.0	0.30	ug/L		10/23/15 11:37	10/23/15 16:57	1
Zinc, Dissolved	600		20	2.8	ug/L		10/23/15 11:37	10/23/15 16:57	1

Method: 2340B-2011 - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Hardness	200		3.3	3.3	mg/L		10/24/15 11:36		1

TestAmerica Savannah

Client Sample Results

Client: Weston Solutions, Inc.

Project/Site: Gold King Mine - Region 8

TestAmerica Job ID: 680-118167-1

Client Sample ID: A72_102215_1215

Lab Sample ID: 680-118167-2

Matrix: Water

Date Collected: 10/22/15 12:15

Date Received: 10/23/15 09:44

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.080	U	0.20	0.080	ug/L		10/23/15 11:24	10/23/15 17:03	1

Method: 245.1 - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	0.080	U	0.20	0.080	ug/L		10/23/15 11:24	10/23/15 17:13	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.97	HF			SU			10/23/15 15:12	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	9.8		5.0	5.0	mg/L			10/23/15 15:12	1

Client Sample ID: GKGSTI_102215_0910

Lab Sample ID: 680-118167-3

Matrix: Water

Date Collected: 10/22/15 09:10

Date Received: 10/23/15 09:44

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.52	J	1.0	0.40	mg/L			10/23/15 15:48	2
Nitrate as N	1.3		0.10	0.046	mg/L			10/23/15 12:53	2
Fluoride	9.8		0.20	0.080	mg/L			10/23/15 15:48	2
Sulfate	1500		50	20	mg/L			10/23/15 16:31	50

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	20000		200	24	ug/L		10/23/15 11:37	10/23/15 17:54	1
Calcium	350000		500	25	ug/L		10/23/15 11:37	10/23/15 17:54	1
Iron	85000		50	17	ug/L		10/23/15 11:37	10/23/15 17:54	1
Magnesium	20000		500	33	ug/L		10/23/15 11:37	10/23/15 17:54	1
Potassium	2200 *		1000	17	ug/L		10/23/15 11:37	10/23/15 17:54	1
Sodium	5000		1000	480	ug/L		10/23/15 11:37	10/23/15 17:54	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum, Dissolved	19000		200	24	ug/L		10/23/15 11:37	10/23/15 17:32	1
Calcium, Dissolved	350000		5000	250	ug/L		10/23/15 11:37	10/24/15 09:21	10
Iron, Dissolved	60000		50	17	ug/L		10/23/15 11:37	10/23/15 17:32	1
Magnesium, Dissolved	20000		5000	330	ug/L		10/23/15 11:37	10/24/15 09:21	10
Potassium, Dissolved	2300 *		1000	17	ug/L		10/23/15 11:37	10/23/15 17:32	1
Sodium, Dissolved	5200		1000	480	ug/L		10/23/15 11:37	10/23/15 17:32	1

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.5		1.0	0.40	ug/L		10/23/15 11:37	10/23/15 17:20	1
Arsenic	29		1.0	0.37	ug/L		10/23/15 11:37	10/23/15 17:20	1
Barium	9.6		2.0	0.14	ug/L		10/23/15 11:37	10/23/15 17:20	1
Beryllium	9.4		0.40	0.15	ug/L		10/23/15 11:37	10/23/15 17:20	1
Cadmium	44		0.50	0.043	ug/L		10/23/15 11:37	10/23/15 17:20	1
Chromium	2.9		2.0	1.0	ug/L		10/23/15 11:37	10/23/15 17:20	1
Cobalt	82		0.40	0.12	ug/L		10/23/15 11:37	10/23/15 17:20	1
Copper	4600 E		1.0	0.50	ug/L		10/23/15 11:37	10/23/15 17:20	1

TestAmerica Savannah

Client Sample Results

Client: Weston Solutions, Inc.

Project/Site: Gold King Mine - Region 8

TestAmerica Job ID: 680-118167-1

Client Sample ID: GKGSTI_102215_0910

Lab Sample ID: 680-118167-3

Matrix: Water

Date Collected: 10/22/15 09:10

Date Received: 10/23/15 09:44

Method: 200.8 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	32		0.30	0.060	ug/L		10/23/15 11:37	10/23/15 17:20	1
Manganese	28000	E	2.5	1.2	ug/L		10/23/15 11:37	10/23/15 17:20	1
Molybdenum	3.8		1.0	0.45	ug/L		10/23/15 11:37	10/23/15 17:20	1
Nickel	47		1.0	0.40	ug/L		10/23/15 11:37	10/23/15 17:20	1
Selenium	1.8	J	2.0	0.58	ug/L		10/23/15 11:37	10/23/15 17:20	1
Silver	0.10	U	1.0	0.10	ug/L		10/23/15 11:37	10/23/15 17:20	1
Thallium	0.23		0.20	0.10	ug/L		10/23/15 11:37	10/23/15 17:20	1
Vanadium	21		1.0	0.30	ug/L		10/23/15 11:37	10/23/15 17:20	1
Zinc	19000	E	20	2.8	ug/L		10/23/15 11:37	10/23/15 17:20	1

Method: 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	0.40	U	1.0	0.40	ug/L		10/23/15 11:37	10/23/15 17:01	1
Arsenic, Dissolved	2.1		1.0	0.37	ug/L		10/23/15 11:37	10/23/15 17:01	1
Barium, Dissolved	9.6		2.0	0.14	ug/L		10/23/15 11:37	10/23/15 17:01	1
Beryllium, Dissolved	8.7		0.40	0.15	ug/L		10/23/15 11:37	10/23/15 17:01	1
Cadmium, Dissolved	44		0.50	0.043	ug/L		10/23/15 11:37	10/23/15 17:01	1
Chromium, Dissolved	1.0	U	2.0	1.0	ug/L		10/23/15 11:37	10/23/15 17:01	1
Cobalt, Dissolved	82		0.40	0.12	ug/L		10/23/15 11:37	10/23/15 17:01	1
Copper, Dissolved	4500	E	1.0	0.50	ug/L		10/23/15 11:37	10/23/15 17:01	1
Lead, Dissolved	15		0.30	0.060	ug/L		10/23/15 11:37	10/23/15 17:01	1
Manganese, Dissolved	29000	E	2.5	1.2	ug/L		10/23/15 11:37	10/23/15 17:01	1
Molybdenum, Dissolved	0.45	U	1.0	0.45	ug/L		10/23/15 11:37	10/23/15 17:01	1
Nickel, Dissolved	48		1.0	0.40	ug/L		10/23/15 11:37	10/23/15 17:01	1
Selenium, Dissolved	1.3	J	2.0	0.58	ug/L		10/23/15 11:37	10/23/15 17:01	1
Silver, Dissolved	0.10	U	1.0	0.10	ug/L		10/23/15 11:37	10/23/15 17:01	1
Thallium, Dissolved	0.23		0.20	0.10	ug/L		10/23/15 11:37	10/23/15 17:01	1
Vanadium, Dissolved	0.51	J	1.0	0.30	ug/L		10/23/15 11:37	10/23/15 17:01	1
Zinc, Dissolved	19000	E	20	2.8	ug/L		10/23/15 11:37	10/23/15 17:01	1

Method: 2340B-2011 - Total Hardness (as CaCO₃) by calculation

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Hardness	960		3.3	3.3	mg/L		10/24/15 11:36		1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.080	U	0.20	0.080	ug/L		10/23/15 11:24	10/23/15 17:07	1

Method: 245.1 - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	0.080	U	0.20	0.080	ug/L		10/23/15 11:24	10/23/15 17:16	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	3.77	HF		SU			10/23/15 15:16		1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	5.0	U	5.0	5.0	mg/L		10/23/15 15:16		1

QC Sample Results

Client: Weston Solutions, Inc.

Project/Site: Gold King Mine - Region 8

TestAmerica Job ID: 680-118167-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 680-407148/2

Matrix: Water

Analysis Batch: 407148

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.023	U	0.050	0.023	mg/L	-	-	10/23/15 09:55	1

Lab Sample ID: LCS 680-407148/3

Matrix: Water

Analysis Batch: 407148

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.	Limits
Nitrate as N	0.999	1.05		mg/L	-	105	90 - 110

Lab Sample ID: LCSD 680-407148/4

Matrix: Water

Analysis Batch: 407148

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec.	RPD	Limit
Nitrate as N	0.999	1.05		mg/L	-	105	90 - 110	0

Lab Sample ID: 680-118167-2 MS

Matrix: Water

Analysis Batch: 407148

Client Sample ID: A72_102215_1215
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec.	Limits
Nitrate as N	0.092		0.999	1.19		mg/L	-	110	80 - 120

Lab Sample ID: 680-118167-2 MSD

Matrix: Water

Analysis Batch: 407148

Client Sample ID: A72_102215_1215
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec.	RPD	Limit
Nitrate as N	0.092		0.999	1.21		mg/L	-	112	80 - 120	2

Lab Sample ID: 680-118167-2 DU

Matrix: Water

Analysis Batch: 407148

Client Sample ID: A72_102215_1215
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Nitrate as N	0.092		0.0923		mg/L	-	0.8	30

Lab Sample ID: MB 680-407149/2

Matrix: Water

Analysis Batch: 407149

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.20	U	0.50	0.20	mg/L	-	-	10/23/15 13:37	1
Fluoride	0.040	U	0.10	0.040	mg/L	-	-	10/23/15 13:37	1
Sulfate	0.40	U	1.0	0.40	mg/L	-	-	10/23/15 13:37	1

TestAmerica Savannah

QC Sample Results

Client: Weston Solutions, Inc.

Project/Site: Gold King Mine - Region 8

TestAmerica Job ID: 680-118167-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 680-407149/3

Matrix: Water

Analysis Batch: 407149

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	10.2		mg/L		102	90 - 110
Fluoride	2.00	2.07		mg/L		103	90 - 110
Sulfate	10.0	9.67		mg/L		97	90 - 110

Lab Sample ID: LCSD 680-407149/4

Matrix: Water

Analysis Batch: 407149

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	10.0	10.2		mg/L		102	90 - 110	0	30
Fluoride	2.00	2.08		mg/L		104	90 - 110	0	30
Sulfate	10.0	9.76		mg/L		98	90 - 110	1	30

Lab Sample ID: 680-118167-2 MS

Matrix: Water

Analysis Batch: 407149

Client Sample ID: A72_102215_1215
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1.4		10.0	12.1		mg/L		107	80 - 120
Fluoride	0.60		2.00	2.66		mg/L		103	80 - 120
Sulfate	190 E		10.0	196 E 4		mg/L		68	80 - 120

Lab Sample ID: 680-118167-2 MSD

Matrix: Water

Analysis Batch: 407149

Client Sample ID: A72_102215_1215
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1.4		10.0	11.8		mg/L		103	80 - 120	3	30
Fluoride	0.60		2.00	2.60		mg/L		100	80 - 120	2	30
Sulfate	190 E		10.0	197 E 4		mg/L		70	80 - 120	0	30

Lab Sample ID: 680-118167-2 DU

Matrix: Water

Analysis Batch: 407149

Client Sample ID: A72_102215_1215
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	1.4		1.43		mg/L		0.2	30
Fluoride	0.60		0.565		mg/L		6	30
Sulfate	190 E		188 E		mg/L		0.7	30

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 680-407108/1-A

Matrix: Water

Analysis Batch: 407249

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 407108

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	24	U	200	24	ug/L		10/23/15 11:37	10/23/15 16:52	1
Aluminum, Dissolved	24	U	200	24	ug/L		10/23/15 11:37	10/23/15 16:52	1

TestAmerica Savannah

QC Sample Results

Client: Weston Solutions, Inc.

Project/Site: Gold King Mine - Region 8

TestAmerica Job ID: 680-118167-1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: MB 680-407108/1-A

Matrix: Water

Analysis Batch: 407249

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 407108

Analyte	MB		RL	MDL	Unit	D	Prepared		Analyzed	Dil Fac
	Result	Qualifier					Prepared	Analyzed		
Calcium	25	U	500	25	ug/L		10/23/15 11:37	10/23/15 16:52		1
Calcium, Dissolved	25	U	500	25	ug/L		10/23/15 11:37	10/23/15 16:52		1
Iron	17	U	50	17	ug/L		10/23/15 11:37	10/23/15 16:52		1
Iron, Dissolved	17	U	50	17	ug/L		10/23/15 11:37	10/23/15 16:52		1
Magnesium	33	U	500	33	ug/L		10/23/15 11:37	10/23/15 16:52		1
Magnesium, Dissolved	33	U	500	33	ug/L		10/23/15 11:37	10/23/15 16:52		1
Potassium	17	U	1000	17	ug/L		10/23/15 11:37	10/23/15 16:52		1
Potassium, Dissolved	17	U	1000	17	ug/L		10/23/15 11:37	10/23/15 16:52		1
Sodium	480	U	1000	480	ug/L		10/23/15 11:37	10/23/15 16:52		1
Sodium, Dissolved	480	U	1000	480	ug/L		10/23/15 11:37	10/23/15 16:52		1

Lab Sample ID: LCS 680-407108/2-A

Matrix: Water

Analysis Batch: 407249

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 407108

Analyte	Spike Added	LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Aluminum	2000	2250		ug/L		113	85 - 115
Aluminum, Dissolved	2000	2250		ug/L		113	85 - 115
Calcium	2000	2300		ug/L		115	85 - 115
Calcium, Dissolved	2000	2300		ug/L		115	85 - 115
Iron	2000	2220		ug/L		111	85 - 115
Iron, Dissolved	2000	2220		ug/L		111	85 - 115
Magnesium	2000	2210		ug/L		110	85 - 115
Magnesium, Dissolved	2000	2210		ug/L		110	85 - 115
Potassium	2000	2560 *		ug/L		128	85 - 115
Potassium, Dissolved	2000	2560 *		ug/L		128	85 - 115
Sodium	2000	2250		ug/L		113	85 - 115
Sodium, Dissolved	2000	2250		ug/L		113	85 - 115

Lab Sample ID: 680-118167-1 MS

Matrix: Water

Analysis Batch: 407249

Client Sample ID: GKMGSTO_102215_1000

Prep Type: Dissolved

Prep Batch: 407108

Analyte	Sample		Spike Added	MS		Unit	D	%Rec	Limits
	Result	Qualifier		Result	Qualifier				
Aluminum	570	F1 F2	2000	1590	F1	ug/L		51	75 - 125
Aluminum, Dissolved	570	F1 F2	2000	1590	F1	ug/L		51	75 - 125
Calcium	480000		2000	482000	4	ug/L		6	75 - 125
Calcium, Dissolved	480000		2000	482000	4	ug/L		6	75 - 125
Iron	170	F1 F2	2000	1150	F1	ug/L		49	75 - 125
Iron, Dissolved	170	F1 F2	2000	1150	F1	ug/L		49	75 - 125
Magnesium	18000		2000	18500	4	ug/L		49	75 - 125
Magnesium, Dissolved	18000		2000	18500	4	ug/L		49	75 - 125
Potassium	2400	* F1 F2	2000	3690	F1	ug/L		66	75 - 125
Potassium, Dissolved	2400	* F1 F2	2000	3690	F1	ug/L		66	75 - 125
Sodium	7900	F1	2000	8990	F1	ug/L		54	75 - 125
Sodium, Dissolved	7900	F1	2000	8990	F1	ug/L		54	75 - 125

TestAmerica Savannah

QC Sample Results

Client: Weston Solutions, Inc.

Project/Site: Gold King Mine - Region 8

TestAmerica Job ID: 680-118167-1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: 680-118167-1 MSD

Matrix: Water

Analysis Batch: 407249

Client Sample ID: GKGSTO_102215_1000

Prep Type: Dissolved

Prep Batch: 407108

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
Aluminum	570	F1 F2	2000	2640	F2	ug/L	103	75 - 125	50	20		
Aluminum, Dissolved	570	F1 F2	2000	2640	F2	ug/L	103	75 - 125	50	20		
Calcium	480000		2000	467000	4	ug/L	-760	75 - 125	3	20		
Calcium, Dissolved	480000		2000	467000	4	ug/L	-760	75 - 125	3	20		
Iron	170	F1 F2	2000	2160	F2	ug/L	99	75 - 125	61	20		
Iron, Dissolved	170	F1 F2	2000	2160	F2	ug/L	99	75 - 125	61	20		
Magnesium	18000		2000	18900	4	ug/L	69	75 - 125	2	20		
Magnesium, Dissolved	18000		2000	18900	4	ug/L	69	75 - 125	2	20		
Potassium	2400	* F1 F2	2000	4940	F1 F2	ug/L	128	75 - 125	29	20		
Potassium, Dissolved	2400	* F1 F2	2000	4940	F1 F2	ug/L	128	75 - 125	29	20		
Sodium	7900	F1	2000	9740		ug/L	92	75 - 125	8	20		
Sodium, Dissolved	7900	F1	2000	9740		ug/L	92	75 - 125	8	20		

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 680-407103/1-A

Matrix: Water

Analysis Batch: 407248

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 407103

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	0.40	U	1.0	0.40	ug/L	10/23/15 11:37	10/23/15 16:26		1
Antimony, Dissolved	0.40	U	1.0	0.40	ug/L	10/23/15 11:37	10/23/15 16:26		1
Arsenic	0.37	U	1.0	0.37	ug/L	10/23/15 11:37	10/23/15 16:26		1
Arsenic, Dissolved	0.37	U	1.0	0.37	ug/L	10/23/15 11:37	10/23/15 16:26		1
Barium	0.14	U	2.0	0.14	ug/L	10/23/15 11:37	10/23/15 16:26		1
Barium, Dissolved	0.14	U	2.0	0.14	ug/L	10/23/15 11:37	10/23/15 16:26		1
Beryllium	0.15	U	0.40	0.15	ug/L	10/23/15 11:37	10/23/15 16:26		1
Beryllium, Dissolved	0.15	U	0.40	0.15	ug/L	10/23/15 11:37	10/23/15 16:26		1
Cadmium	0.043	U	0.50	0.043	ug/L	10/23/15 11:37	10/23/15 16:26		1
Cadmium, Dissolved	0.043	U	0.50	0.043	ug/L	10/23/15 11:37	10/23/15 16:26		1
Chromium	1.0	U	2.0	1.0	ug/L	10/23/15 11:37	10/23/15 16:26		1
Chromium, Dissolved	1.0	U	2.0	1.0	ug/L	10/23/15 11:37	10/23/15 16:26		1
Cobalt	0.12	U	0.40	0.12	ug/L	10/23/15 11:37	10/23/15 16:26		1
Cobalt, Dissolved	0.12	U	0.40	0.12	ug/L	10/23/15 11:37	10/23/15 16:26		1
Copper	0.50	U	1.0	0.50	ug/L	10/23/15 11:37	10/23/15 16:26		1
Copper, Dissolved	0.50	U	1.0	0.50	ug/L	10/23/15 11:37	10/23/15 16:26		1
Lead	0.060	U	0.30	0.060	ug/L	10/23/15 11:37	10/23/15 16:26		1
Lead, Dissolved	0.060	U	0.30	0.060	ug/L	10/23/15 11:37	10/23/15 16:26		1
Manganese	1.2	U	2.5	1.2	ug/L	10/23/15 11:37	10/23/15 16:26		1
Manganese, Dissolved	1.2	U	2.5	1.2	ug/L	10/23/15 11:37	10/23/15 16:26		1
Molybdenum	0.45	U	1.0	0.45	ug/L	10/23/15 11:37	10/23/15 16:26		1
Molybdenum, Dissolved	0.45	U	1.0	0.45	ug/L	10/23/15 11:37	10/23/15 16:26		1
Nickel	0.40	U	1.0	0.40	ug/L	10/23/15 11:37	10/23/15 16:26		1
Nickel, Dissolved	0.40	U	1.0	0.40	ug/L	10/23/15 11:37	10/23/15 16:26		1
Selenium	0.58	U	2.0	0.58	ug/L	10/23/15 11:37	10/23/15 16:26		1
Selenium, Dissolved	0.58	U	2.0	0.58	ug/L	10/23/15 11:37	10/23/15 16:26		1
Silver	0.10	U	1.0	0.10	ug/L	10/23/15 11:37	10/23/15 16:26		1
Silver, Dissolved	0.10	U	1.0	0.10	ug/L	10/23/15 11:37	10/23/15 16:26		1

TestAmerica Savannah

QC Sample Results

Client: Weston Solutions, Inc.

Project/Site: Gold King Mine - Region 8

TestAmerica Job ID: 680-118167-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 680-407103/1-A

Matrix: Water

Analysis Batch: 407248

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 407103

MB MB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.10	U	0.20	0.10	ug/L		10/23/15 11:37	10/23/15 16:26	1
Thallium, Dissolved	0.10	U	0.20	0.10	ug/L		10/23/15 11:37	10/23/15 16:26	1
Vanadium	0.30	U	1.0	0.30	ug/L		10/23/15 11:37	10/23/15 16:26	1
Vanadium, Dissolved	0.30	U	1.0	0.30	ug/L		10/23/15 11:37	10/23/15 16:26	1
Zinc	2.8	U	20	2.8	ug/L		10/23/15 11:37	10/23/15 16:26	1
Zinc, Dissolved	2.8	U	20	2.8	ug/L		10/23/15 11:37	10/23/15 16:26	1

Lab Sample ID: LCS 680-407103/2-A

Matrix: Water

Analysis Batch: 407248

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 407103

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	20.0	22.4		ug/L		112	85 - 115
Antimony, Dissolved	20.0	22.4		ug/L		112	85 - 115
Arsenic	40.0	42.8		ug/L		107	85 - 115
Arsenic, Dissolved	40.0	42.8		ug/L		107	85 - 115
Barium	40.0	43.1		ug/L		108	85 - 115
Barium, Dissolved	40.0	43.1		ug/L		108	85 - 115
Beryllium	20.0	21.9		ug/L		110	85 - 115
Beryllium, Dissolved	20.0	21.9		ug/L		110	85 - 115
Cadmium	20.0	21.4		ug/L		107	85 - 115
Cadmium, Dissolved	20.0	21.4		ug/L		107	85 - 115
Chromium	40.0	41.2		ug/L		103	85 - 115
Chromium, Dissolved	40.0	41.2		ug/L		103	85 - 115
Cobalt	20.0	21.8		ug/L		109	85 - 115
Cobalt, Dissolved	20.0	21.8		ug/L		109	85 - 115
Copper	40.0	41.9		ug/L		105	85 - 115
Copper, Dissolved	40.0	41.9		ug/L		105	85 - 115
Lead	200	203		ug/L		101	85 - 115
Lead, Dissolved	200	203		ug/L		101	85 - 115
Manganese	200	207		ug/L		104	85 - 115
Manganese, Dissolved	200	207		ug/L		104	85 - 115
Molybdenum	40.0	42.2		ug/L		105	85 - 115
Molybdenum, Dissolved	40.0	42.2		ug/L		105	85 - 115
Nickel	40.0	41.7		ug/L		104	85 - 115
Nickel, Dissolved	40.0	41.7		ug/L		104	85 - 115
Selenium	40.0	46.0		ug/L		115	85 - 115
Selenium, Dissolved	40.0	46.0		ug/L		115	85 - 115
Silver	20.0	19.3		ug/L		97	85 - 115
Silver, Dissolved	20.0	19.3		ug/L		97	85 - 115
Thallium	16.0	17.6		ug/L		110	85 - 115
Thallium, Dissolved	16.0	17.6		ug/L		110	85 - 115
Vanadium	40.0	41.9		ug/L		105	85 - 115
Vanadium, Dissolved	40.0	41.9		ug/L		105	85 - 115
Zinc	40.0	44.7		ug/L		112	85 - 115
Zinc, Dissolved	40.0	44.7		ug/L		112	85 - 115

TestAmerica Savannah

QC Sample Results

Client: Weston Solutions, Inc.

Project/Site: Gold King Mine - Region 8

TestAmerica Job ID: 680-118167-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: 680-118167-1 MS

Matrix: Water

Analysis Batch: 407248

Client Sample ID: GKGSTO_102215_1000

Prep Type: Dissolved

Prep Batch: 407103

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier		Result	Qualifier				
Antimony	0.40	U F1 F2	20.0	10.1	F1	ug/L	50	70 - 130	
Antimony, Dissolved	0.40	U F1 F2	20.0	10.1	F1	ug/L	50	70 - 130	
Arsenic	0.37	U F1 F2	40.0	20.1	F1	ug/L	50	70 - 130	
Arsenic, Dissolved	0.37	U F1 F2	40.0	20.1	F1	ug/L	50	70 - 130	
Barium	8.8	F1 F2	40.0	27.0	F1	ug/L	45	70 - 130	
Barium, Dissolved	8.8	F1 F2	40.0	27.0	F1	ug/L	45	70 - 130	
Beryllium	0.15	U F1 F2	20.0	9.18	F1	ug/L	46	70 - 130	
Beryllium, Dissolved	0.15	U F1 F2	20.0	9.18	F1	ug/L	46	70 - 130	
Cadmium	2.8	F1 F2	20.0	10.8	F1	ug/L	40	70 - 130	
Cadmium, Dissolved	2.8	F1 F2	20.0	10.8	F1	ug/L	40	70 - 130	
Chromium	1.0	U F1 F2	40.0	18.4	F1	ug/L	46	70 - 130	
Chromium, Dissolved	1.0	U F1 F2	40.0	18.4	F1	ug/L	46	70 - 130	
Cobalt	6.5	F1 F2	20.0	15.1	F1	ug/L	43	70 - 130	
Cobalt, Dissolved	6.5	F1 F2	20.0	15.1	F1	ug/L	43	70 - 130	
Copper	13	F1 F2	40.0	28.3	F1	ug/L	38	70 - 130	
Copper, Dissolved	13	F1 F2	40.0	28.3	F1	ug/L	38	70 - 130	
Lead	0.24	J F1 F2	200	84.9	F1	ug/L	42	70 - 130	
Lead, Dissolved	0.24	J F1 F2	200	84.9	F1	ug/L	42	70 - 130	
Manganese	12000	E	200	11300	E 4	ug/L	-433	70 - 130	
Manganese, Dissolved	12000	E	200	11300	E 4	ug/L	-433	70 - 130	
Molybdenum	0.70	J F1 F2	40.0	19.9	F1	ug/L	48	70 - 130	
Molybdenum, Dissolved	0.70	J F1 F2	40.0	19.9	F1	ug/L	48	70 - 130	
Nickel	8.4	F1 F2	40.0	24.9	F1	ug/L	41	70 - 130	
Nickel, Dissolved	8.4	F1 F2	40.0	24.9	F1	ug/L	41	70 - 130	
Selenium	0.58	U F1 F2	40.0	20.5	F1	ug/L	51	70 - 130	
Selenium, Dissolved	0.58	U F1 F2	40.0	20.5	F1	ug/L	51	70 - 130	
Silver	0.10	U F1 F2	20.0	8.81	F1	ug/L	44	70 - 130	
Silver, Dissolved	0.10	U F1 F2	20.0	8.81	F1	ug/L	44	70 - 130	
Thallium	0.20	F1 F2	16.0	7.70	F1	ug/L	47	70 - 130	
Thallium, Dissolved	0.20	F1 F2	16.0	7.70	F1	ug/L	47	70 - 130	
Vanadium	0.30	U F1 F2	40.0	19.3	F1	ug/L	48	70 - 130	
Vanadium, Dissolved	0.30	U F1 F2	40.0	19.3	F1	ug/L	48	70 - 130	
Zinc	91	F1	40.0	101	F1	ug/L	26	70 - 130	
Zinc, Dissolved	91	F1	40.0	101	F1	ug/L	26	70 - 130	

Lab Sample ID: 680-118167-1 MSD

Matrix: Water

Analysis Batch: 407248

Client Sample ID: GKGSTO_102215_1000

Prep Type: Dissolved

Prep Batch: 407103

Analyte	Sample	Sample	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec.	RPD
	Result	Qualifier		Result	Qualifier					
Antimony	0.40	U F1 F2	20.0	21.5	F2	ug/L	107	70 - 130	72	20
Antimony, Dissolved	0.40	U F1 F2	20.0	21.5	F2	ug/L	107	70 - 130	72	20
Arsenic	0.37	U F1 F2	40.0	42.6	F2	ug/L	106	70 - 130	72	20
Arsenic, Dissolved	0.37	U F1 F2	40.0	42.6	F2	ug/L	106	70 - 130	72	20
Barium	8.8	F1 F2	40.0	49.7	F2	ug/L	102	70 - 130	59	20
Barium, Dissolved	8.8	F1 F2	40.0	49.7	F2	ug/L	102	70 - 130	59	20
Beryllium	0.15	U F1 F2	20.0	19.5	F2	ug/L	98	70 - 130	72	20
Beryllium, Dissolved	0.15	U F1 F2	20.0	19.5	F2	ug/L	98	70 - 130	72	20

TestAmerica Savannah

QC Sample Results

Client: Weston Solutions, Inc.

Project/Site: Gold King Mine - Region 8

TestAmerica Job ID: 680-118167-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: 680-118167-1 MSD

Matrix: Water

Analysis Batch: 407248

Client Sample ID: GKMGSTO_102215_1000

Prep Type: Dissolved

Prep Batch: 407103

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Cadmium	2.8	F1 F2	20.0	20.5	F2	ug/L	88	70 - 130	62	20	
Cadmium, Dissolved	2.8	F1 F2	20.0	20.5	F2	ug/L	88	70 - 130	62	20	
Chromium	1.0	U F1 F2	40.0	39.0	F2	ug/L	97	70 - 130	72	20	
Chromium, Dissolved	1.0	U F1 F2	40.0	39.0	F2	ug/L	97	70 - 130	72	20	
Cobalt	6.5	F1 F2	20.0	25.8	F2	ug/L	96	70 - 130	52	20	
Cobalt, Dissolved	6.5	F1 F2	20.0	25.8	F2	ug/L	96	70 - 130	52	20	
Copper	13	F1 F2	40.0	47.6	F2	ug/L	86	70 - 130	51	20	
Copper, Dissolved	13	F1 F2	40.0	47.6	F2	ug/L	86	70 - 130	51	20	
Lead	0.24	J F1 F2	200	181	F2	ug/L	90	70 - 130	72	20	
Lead, Dissolved	0.24	J F1 F2	200	181	F2	ug/L	90	70 - 130	72	20	
Manganese	12000	E	200	11600	E 4	ug/L	-321	70 - 130	2	20	
Manganese, Dissolved	12000	E	200	11600	E 4	ug/L	-321	70 - 130	2	20	
Molybdenum	0.70	J F1 F2	40.0	42.7	F2	ug/L	105	70 - 130	73	20	
Molybdenum, Dissolved	0.70	J F1 F2	40.0	42.7	F2	ug/L	105	70 - 130	73	20	
Nickel	8.4	F1 F2	40.0	44.5	F2	ug/L	90	70 - 130	57	20	
Nickel, Dissolved	8.4	F1 F2	40.0	44.5	F2	ug/L	90	70 - 130	57	20	
Selenium	0.58	U F1 F2	40.0	42.0	F2	ug/L	105	70 - 130	69	20	
Selenium, Dissolved	0.58	U F1 F2	40.0	42.0	F2	ug/L	105	70 - 130	69	20	
Silver	0.10	U F1 F2	20.0	20.1	F2	ug/L	101	70 - 130	78	20	
Silver, Dissolved	0.10	U F1 F2	20.0	20.1	F2	ug/L	101	70 - 130	78	20	
Thallium	0.20	F1 F2	16.0	16.0	F2	ug/L	99	70 - 130	70	20	
Thallium, Dissolved	0.20	F1 F2	16.0	16.0	F2	ug/L	99	70 - 130	70	20	
Vanadium	0.30	U F1 F2	40.0	41.0	F2	ug/L	103	70 - 130	72	20	
Vanadium, Dissolved	0.30	U F1 F2	40.0	41.0	F2	ug/L	103	70 - 130	72	20	
Zinc	91	F1	40.0	122		ug/L	80	70 - 130	19	20	
Zinc, Dissolved	91	F1	40.0	122		ug/L	80	70 - 130	19	20	

Method: 2340B-2011 - Total Hardness (as CaCO₃) by calculation

Lab Sample ID: MB 680-407254/1

Matrix: Water

Analysis Batch: 407254

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Hardness	3.3	U	3.3	3.3	mg/L			10/24/15 11:36	1

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 680-407095/1-A

Matrix: Water

Analysis Batch: 407222

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 407095

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	0.080	U	0.20	0.080	ug/L			10/23/15 11:24	1
Mercury, Dissolved	0.080	U	0.20	0.080	ug/L			10/23/15 11:24	1
								10/23/15 16:39	

TestAmerica Savannah

QC Sample Results

Client: Weston Solutions, Inc.

Project/Site: Gold King Mine - Region 8

TestAmerica Job ID: 680-118167-1

Method: 245.1 - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 680-407095/3-A

Matrix: Water

Analysis Batch: 407222

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 407095

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
Mercury	2.50	2.39		ug/L		96	85 - 115
Mercury, Dissolved	2.50	2.39		ug/L		96	85 - 115

Lab Sample ID: 680-118167-1 MS

Matrix: Water

Analysis Batch: 407222

Client Sample ID: GKGSTO_102215_1000

Prep Type: Total/NA

Prep Batch: 407095

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec.
Mercury	0.080	U	1.00	1.05		ug/L		105	70 - 130
Mercury, Dissolved	0.080	U	1.00	1.05		ug/L		105	70 - 130

Lab Sample ID: 680-118167-1 MSD

Matrix: Water

Analysis Batch: 407222

Client Sample ID: GKGSTO_102215_1000

Prep Type: Total/NA

Prep Batch: 407095

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec.	RPD
Mercury	0.080	U	1.00	1.04		ug/L		104	70 - 130	1
Mercury, Dissolved	0.080	U	1.00	1.04		ug/L		104	70 - 130	1

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 680-407188/7

Matrix: Water

Analysis Batch: 407188

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	5.0	U		5.0	mg/L			10/23/15 14:50	1

Lab Sample ID: LCS 680-407188/8

Matrix: Water

Analysis Batch: 407188

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
Alkalinity	248	285		mg/L		115	80 - 120

Lab Sample ID: LCSD 680-407188/14

Matrix: Water

Analysis Batch: 407188

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.	RPD
Alkalinity	248	292		mg/L		118	80 - 120	2

Lab Sample ID: 680-118167-3 DU

Matrix: Water

Analysis Batch: 407188

Client Sample ID: GKGSTO_102215_0910

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD
Alkalinity	5.0	U	5.0	U	mg/L		NC

TestAmerica Savannah

QC Sample Results

Client: Weston Solutions, Inc.

Project/Site: Gold King Mine - Region 8

TestAmerica Job ID: 680-118167-1

Method: 4500 H+ B-2011 - pH

Lab Sample ID: LCS 680-407189/5

Matrix: Water

Analysis Batch: 407189

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte

pH

Spike
Added
7.00

LCS
Result
7.200

LCS
Qualifier
SU

Unit
SU

D
103

%Rec.
Limits
63 - 158

Lab Sample ID: 680-118167-3 DU

Matrix: Water

Analysis Batch: 407189

Client Sample ID: GKGSTI_102215_0910
Prep Type: Total/NA

Analyte

pH

Sample
Result
3.77

Sample
Qualifier
HF

DU
Result
3.760

DU
Qualifier
SU

Unit
SU

D

RPD
0.3

Limit
40

QC Association Summary

Client: Weston Solutions, Inc.

Project/Site: Gold King Mine - Region 8

TestAmerica Job ID: 680-118167-1

HPLC/IC

Analysis Batch: 407148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-118167-1	GKMGSTO_102215_1000	Total/NA	Water	300.0	
680-118167-2	A72_102215_1215	Total/NA	Water	300.0	
680-118167-2 DU	A72_102215_1215	Total/NA	Water	300.0	
680-118167-2 MS	A72_102215_1215	Total/NA	Water	300.0	
680-118167-2 MSD	A72_102215_1215	Total/NA	Water	300.0	
680-118167-3	GKMGSTI_102215_0910	Total/NA	Water	300.0	
LCS 680-407148/3	Lab Control Sample	Total/NA	Water	300.0	
LCSD 680-407148/4	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 680-407148/2	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 407149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-118167-1	GKMGSTO_102215_1000	Total/NA	Water	300.0	
680-118167-1	GKMGSTO_102215_1000	Total/NA	Water	300.0	
680-118167-2	A72_102215_1215	Total/NA	Water	300.0	
680-118167-2	A72_102215_1215	Total/NA	Water	300.0	
680-118167-2 DU	A72_102215_1215	Total/NA	Water	300.0	
680-118167-2 MS	A72_102215_1215	Total/NA	Water	300.0	
680-118167-2 MSD	A72_102215_1215	Total/NA	Water	300.0	
680-118167-3	GKMGSTI_102215_0910	Total/NA	Water	300.0	
680-118167-3	GKMGSTI_102215_0910	Total/NA	Water	300.0	
LCS 680-407149/3	Lab Control Sample	Total/NA	Water	300.0	
LCSD 680-407149/4	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 680-407149/2	Method Blank	Total/NA	Water	300.0	

Metals

Prep Batch: 407095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-118167-1	GKMGSTO_102215_1000	Dissolved	Water	245.1	
680-118167-1	GKMGSTO_102215_1000	Total/NA	Water	245.1	
680-118167-1 MS	GKMGSTO_102215_1000	Total/NA	Water	245.1	
680-118167-1 MSD	GKMGSTO_102215_1000	Total/NA	Water	245.1	
680-118167-2	A72_102215_1215	Dissolved	Water	245.1	
680-118167-2	A72_102215_1215	Total/NA	Water	245.1	
680-118167-3	GKMGSTI_102215_0910	Dissolved	Water	245.1	
680-118167-3	GKMGSTI_102215_0910	Total/NA	Water	245.1	
LCS 680-407095/3-A	Lab Control Sample	Total/NA	Water	245.1	
MB 680-407095/1-A	Method Blank	Total/NA	Water	245.1	

Prep Batch: 407103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-118167-1	GKMGSTO_102215_1000	Dissolved	Water	200	
680-118167-1	GKMGSTO_102215_1000	Total/NA	Water	200	
680-118167-1 MS	GKMGSTO_102215_1000	Dissolved	Water	200	
680-118167-1 MSD	GKMGSTO_102215_1000	Dissolved	Water	200	
680-118167-2	A72_102215_1215	Dissolved	Water	200	
680-118167-2	A72_102215_1215	Total/NA	Water	200	
680-118167-3	GKMGSTI_102215_0910	Dissolved	Water	200	
680-118167-3	GKMGSTI_102215_0910	Total/NA	Water	200	

TestAmerica Savannah

QC Association Summary

Client: Weston Solutions, Inc.

Project/Site: Gold King Mine - Region 8

TestAmerica Job ID: 680-118167-1

Metals (Continued)

Prep Batch: 407103 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-407103/2-A	Lab Control Sample	Total/NA	Water	200	
MB 680-407103/1-A	Method Blank	Total/NA	Water	200	

Prep Batch: 407108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-118167-1	GKMGSTO_102215_1000	Dissolved	Water	200	
680-118167-1	GKMGSTO_102215_1000	Total/NA	Water	200	
680-118167-1 MS	GKMGSTO_102215_1000	Dissolved	Water	200	
680-118167-1 MSD	GKMGSTO_102215_1000	Dissolved	Water	200	
680-118167-2	A72_102215_1215	Dissolved	Water	200	
680-118167-2	A72_102215_1215	Total/NA	Water	200	
680-118167-3	GKMGSTI_102215_0910	Dissolved	Water	200	
680-118167-3	GKMGSTI_102215_0910	Total/NA	Water	200	
LCS 680-407108/2-A	Lab Control Sample	Total/NA	Water	200	
MB 680-407108/1-A	Method Blank	Total/NA	Water	200	

Analysis Batch: 407222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-118167-1	GKMGSTO_102215_1000	Dissolved	Water	245.1	407095
680-118167-1	GKMGSTO_102215_1000	Total/NA	Water	245.1	407095
680-118167-1 MS	GKMGSTO_102215_1000	Total/NA	Water	245.1	407095
680-118167-1 MSD	GKMGSTO_102215_1000	Total/NA	Water	245.1	407095
680-118167-2	A72_102215_1215	Dissolved	Water	245.1	407095
680-118167-2	A72_102215_1215	Total/NA	Water	245.1	407095
680-118167-3	GKMGSTI_102215_0910	Dissolved	Water	245.1	407095
680-118167-3	GKMGSTI_102215_0910	Total/NA	Water	245.1	407095
LCS 680-407095/3-A	Lab Control Sample	Total/NA	Water	245.1	407095
MB 680-407095/1-A	Method Blank	Total/NA	Water	245.1	407095

Analysis Batch: 407248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-118167-1	GKMGSTO_102215_1000	Dissolved	Water	200.8	407103
680-118167-1	GKMGSTO_102215_1000	Total/NA	Water	200.8	407103
680-118167-1 MS	GKMGSTO_102215_1000	Dissolved	Water	200.8	407103
680-118167-1 MSD	GKMGSTO_102215_1000	Dissolved	Water	200.8	407103
680-118167-2	A72_102215_1215	Dissolved	Water	200.8	407103
680-118167-2	A72_102215_1215	Total/NA	Water	200.8	407103
680-118167-3	GKMGSTI_102215_0910	Dissolved	Water	200.8	407103
680-118167-3	GKMGSTI_102215_0910	Total/NA	Water	200.8	407103
LCS 680-407103/2-A	Lab Control Sample	Total/NA	Water	200.8	407103
MB 680-407103/1-A	Method Blank	Total/NA	Water	200.8	407103

Analysis Batch: 407249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-118167-1	GKMGSTO_102215_1000	Dissolved	Water	200.7 Rev 4.4	407108
680-118167-1	GKMGSTO_102215_1000	Total/NA	Water	200.7 Rev 4.4	407108
680-118167-1 MS	GKMGSTO_102215_1000	Dissolved	Water	200.7 Rev 4.4	407108
680-118167-1 MSD	GKMGSTO_102215_1000	Dissolved	Water	200.7 Rev 4.4	407108
680-118167-2	A72_102215_1215	Dissolved	Water	200.7 Rev 4.4	407108
680-118167-2	A72_102215_1215	Total/NA	Water	200.7 Rev 4.4	407108
680-118167-3	GKMGSTI_102215_0910	Dissolved	Water	200.7 Rev 4.4	407108

TestAmerica Savannah

QC Association Summary

Client: Weston Solutions, Inc.

Project/Site: Gold King Mine - Region 8

TestAmerica Job ID: 680-118167-1

Metals (Continued)

Analysis Batch: 407249 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-118167-3	GKMGSTI_102215_0910	Dissolved	Water	200.7 Rev 4.4	407108
680-118167-3	GKMGSTI_102215_0910	Total/NA	Water	200.7 Rev 4.4	407108
LCS 680-407108/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	407108
MB 680-407108/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	407108

Analysis Batch: 407254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-118167-1	GKMGSTO_102215_1000	Total/NA	Water	2340B-2011	8
680-118167-2	A72_102215_1215	Total/NA	Water	2340B-2011	9
680-118167-3	GKMGSTI_102215_0910	Total/NA	Water	2340B-2011	10
MB 680-407254/1	Method Blank	Total/NA	Water	2340B-2011	11

General Chemistry

Analysis Batch: 407188

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-118167-1	GKMGSTO_102215_1000	Total/NA	Water	2320B-2011	12
680-118167-2	A72_102215_1215	Total/NA	Water	2320B-2011	
680-118167-3	GKMGSTI_102215_0910	Total/NA	Water	2320B-2011	
680-118167-3 DU	GKMGSTI_102215_0910	Total/NA	Water	2320B-2011	
LCS 680-407188/8	Lab Control Sample	Total/NA	Water	2320B-2011	
LCSD 680-407188/14	Lab Control Sample Dup	Total/NA	Water	2320B-2011	
MB 680-407188/7	Method Blank	Total/NA	Water	2320B-2011	

Analysis Batch: 407189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-118167-1	GKMGSTO_102215_1000	Total/NA	Water	4500 H+ B-2011	
680-118167-2	A72_102215_1215	Total/NA	Water	4500 H+ B-2011	
680-118167-3	GKMGSTI_102215_0910	Total/NA	Water	4500 H+ B-2011	
680-118167-3 DU	GKMGSTI_102215_0910	Total/NA	Water	4500 H+ B-2011	
LCS 680-407189/5	Lab Control Sample	Total/NA	Water	4500 H+ B-2011	

Lab Chronicle

Client: Weston Solutions, Inc.
Project/Site: Gold King Mine - Region 8

TestAmerica Job ID: 680-118167-1

Client Sample ID: GKGSTO_102215_1000

Lab Sample ID: 680-118167-1

Matrix: Water

Date Collected: 10/22/15 10:00

Date Received: 10/23/15 09:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0 Instrument ID: CICG		2	5 mL	5 mL	407148	10/23/15 11:37	JMD	TAL SAV
Total/NA	Analysis	300.0 Instrument ID: CICL		2	5 mL	5 mL	407149	10/23/15 14:35	AJO	TAL SAV
Total/NA	Analysis	300.0 Instrument ID: CICL		50	5 mL	5 mL	407149	10/23/15 16:02	AJO	TAL SAV
Dissolved	Prep	200			50 mL	50 mL	407108	10/23/15 11:37	KMN	TAL SAV
Dissolved	Analysis	200.7 Rev 4.4 Instrument ID: ICPE		1	50 mL	50 mL	407249	10/23/15 17:05	BJB	TAL SAV
Total/NA	Prep	200			50 mL	50 mL	407108	10/23/15 11:37	KMN	TAL SAV
Total/NA	Analysis	200.7 Rev 4.4 Instrument ID: ICPE		1	50 mL	50 mL	407249	10/23/15 17:45	BJB	TAL SAV
Dissolved	Prep	200			50 mL	50 mL	407103	10/23/15 11:37	KMN	TAL SAV
Dissolved	Analysis	200.8 Instrument ID: ICPMSC		1	50 mL	50 mL	407248	10/23/15 16:37	BJB	TAL SAV
Total/NA	Prep	200			50 mL	50 mL	407103	10/23/15 11:37	KMN	TAL SAV
Total/NA	Analysis	200.8 Instrument ID: ICPMSC		1	50 mL	50 mL	407248	10/23/15 17:12	BJB	TAL SAV
Total/NA	Analysis	2340B-2011 Instrument ID: ICPE					407254	10/24/15 11:36	BJB	TAL SAV
Dissolved	Prep	245.1			50 mL	50 mL	407095	10/23/15 11:24	CRW	TAL SAV
Dissolved	Analysis	245.1 Instrument ID: LEEMAN2		1	50 mL	50 mL	407222	10/23/15 17:10	CRW	TAL SAV
Total/NA	Prep	245.1			50 mL	50 mL	407095	10/23/15 11:24	CRW	TAL SAV
Total/NA	Analysis	245.1 Instrument ID: LEEMAN2		1	50 mL	50 mL	407222	10/23/15 16:48	CRW	TAL SAV
Total/NA	Analysis	2320B-2011 Instrument ID: MANTECH					407188	10/23/15 15:06	OLB	TAL SAV
Total/NA	Analysis	4500 H+ B-2011 Instrument ID: MANTECH		1			407189	10/23/15 15:06	OLB	TAL SAV

Client Sample ID: A72_102215_1215

Lab Sample ID: 680-118167-2

Matrix: Water

Date Collected: 10/22/15 12:15

Date Received: 10/23/15 09:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0 Instrument ID: CICG		1	5 mL	5 mL	407148	10/23/15 11:52	JMD	TAL SAV
Total/NA	Analysis	300.0 Instrument ID: CICL		1	5 mL	5 mL	407149	10/23/15 14:50	AJO	TAL SAV
Total/NA	Analysis	300.0 Instrument ID: CICL		5	5 mL	5 mL	407149	10/23/15 16:17	AJO	TAL SAV
Dissolved	Prep	200			50 mL	50 mL	407108	10/23/15 11:37	KMN	TAL SAV

TestAmerica Savannah

Lab Chronicle

Client: Weston Solutions, Inc.

Project/Site: Gold King Mine - Region 8

TestAmerica Job ID: 680-118167-1

Client Sample ID: A72_102215_1215

Date Collected: 10/22/15 12:15

Date Received: 10/23/15 09:44

Lab Sample ID: 680-118167-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	200.7 Rev 4.4		1	50 mL	50 mL	407249	10/23/15 17:19	BJB	TAL SAV
		Instrument ID: ICPE								
Total/NA	Prep	200			50 mL	50 mL	407108	10/23/15 11:37	KMN	TAL SAV
Total/NA	Analysis	200.7 Rev 4.4		1	50 mL	50 mL	407249	10/23/15 17:50	BJB	TAL SAV
		Instrument ID: ICPE								
Dissolved	Prep	200			50 mL	50 mL	407103	10/23/15 11:37	KMN	TAL SAV
Dissolved	Analysis	200.8		1	50 mL	50 mL	407248	10/23/15 16:57	BJB	TAL SAV
		Instrument ID: ICPMSC								
Total/NA	Prep	200			50 mL	50 mL	407103	10/23/15 11:37	KMN	TAL SAV
Total/NA	Analysis	200.8		1	50 mL	50 mL	407248	10/23/15 17:16	BJB	TAL SAV
		Instrument ID: ICPMSC								
Total/NA	Analysis	2340B-2011		1			407254	10/24/15 11:36	BJB	TAL SAV
		Instrument ID: ICPE								
Dissolved	Prep	245.1			50 mL	50 mL	407095	10/23/15 11:24	CRW	TAL SAV
Dissolved	Analysis	245.1		1	50 mL	50 mL	407222	10/23/15 17:13	CRW	TAL SAV
		Instrument ID: LEEMAN2								
Total/NA	Prep	245.1			50 mL	50 mL	407095	10/23/15 11:24	CRW	TAL SAV
Total/NA	Analysis	245.1		1	50 mL	50 mL	407222	10/23/15 17:03	CRW	TAL SAV
		Instrument ID: LEEMAN2								
Total/NA	Analysis	2320B-2011		1			407188	10/23/15 15:12	OLB	TAL SAV
		Instrument ID: MANTECH								
Total/NA	Analysis	4500 H+ B-2011		1			407189	10/23/15 15:12	OLB	TAL SAV
		Instrument ID: MANTECH								

Client Sample ID: GKGSTI_102215_0910

Date Collected: 10/22/15 09:10

Date Received: 10/23/15 09:44

Lab Sample ID: 680-118167-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		2	5 mL	5 mL	407148	10/23/15 12:53	JMD	TAL SAV
		Instrument ID: CICG								
Total/NA	Analysis	300.0		2	5 mL	5 mL	407149	10/23/15 15:48	AJO	TAL SAV
		Instrument ID: CICL								
Total/NA	Analysis	300.0		50	5 mL	5 mL	407149	10/23/15 16:31	AJO	TAL SAV
		Instrument ID: CICL								
Dissolved	Prep	200			50 mL	50 mL	407108	10/23/15 11:37	KMN	TAL SAV
Dissolved	Analysis	200.7 Rev 4.4		1	50 mL	50 mL	407249	10/23/15 17:32	BJB	TAL SAV
		Instrument ID: ICPE								
Dissolved	Prep	200			50 mL	50 mL	407108	10/23/15 11:37	KMN	TAL SAV
Dissolved	Analysis	200.7 Rev 4.4		10	50 mL	50 mL	407249	10/24/15 09:21	BJB	TAL SAV
		Instrument ID: ICPE								
Total/NA	Prep	200			50 mL	50 mL	407108	10/23/15 11:37	KMN	TAL SAV
Total/NA	Analysis	200.7 Rev 4.4		1	50 mL	50 mL	407249	10/23/15 17:54	BJB	TAL SAV
		Instrument ID: ICPE								

TestAmerica Savannah

Lab Chronicle

Client: Weston Solutions, Inc.

Project/Site: Gold King Mine - Region 8

TestAmerica Job ID: 680-118167-1

Client Sample ID: GKGSTI_102215_0910

Lab Sample ID: 680-118167-3

Matrix: Water

Date Collected: 10/22/15 09:10

Date Received: 10/23/15 09:44

Prep Type	Batch	Batch	Run	Dil	Initial	Final	Batch	Prepared	Analyst	Lab
	Type	Method		Factor	Amount	Amount	Number	or Analyzed		
Dissolved	Prep	200			50 mL	50 mL	407103	10/23/15 11:37	KMN	TAL SAV
Dissolved	Analysis	200.8		1	50 mL	50 mL	407248	10/23/15 17:01	BJB	TAL SAV
		Instrument ID: ICPMSC								
Total/NA	Prep	200			50 mL	50 mL	407103	10/23/15 11:37	KMN	TAL SAV
Total/NA	Analysis	200.8		1	50 mL	50 mL	407248	10/23/15 17:20	BJB	TAL SAV
		Instrument ID: ICPMSC								
Total/NA	Analysis	2340B-2011		1			407254	10/24/15 11:36	BJB	TAL SAV
		Instrument ID: ICPE								
Dissolved	Prep	245.1			50 mL	50 mL	407095	10/23/15 11:24	CRW	TAL SAV
Dissolved	Analysis	245.1		1	50 mL	50 mL	407222	10/23/15 17:16	CRW	TAL SAV
		Instrument ID: LEEMAN2								
Total/NA	Prep	245.1			50 mL	50 mL	407095	10/23/15 11:24	CRW	TAL SAV
Total/NA	Analysis	245.1		1	50 mL	50 mL	407222	10/23/15 17:07	CRW	TAL SAV
		Instrument ID: LEEMAN2								
Total/NA	Analysis	2320B-2011		1			407188	10/23/15 15:16	OLB	TAL SAV
		Instrument ID: MANTECH								
Total/NA	Analysis	4500 H+ B-2011		1			407189	10/23/15 15:16	OLB	TAL SAV
		Instrument ID: MANTECH								

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

TestAmerica Savannah

TestAmerica

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Serial Number 96714

 TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

THE LEADER IN ENVIRONMENTAL TESTING

PROJECT REFERENCE

Gold King Mine
TAL (LAB) PROJECT MANAGER

PO. NUMBER

PROJECT NO.

PROJECT LOCATION
(STATE)

CONTRACT NO.

MATRIX TYPE

INDICATE

AQUEOUS (WATER)

SOLID OR SEMISOLID

AIR

NONAQUEOUS LIQUID (OIL, SOLVENT...)

REMARKS

REMARKS

SAMPLE IDENTIFICATION

DATE

TIME

RECEIVED BY: (SIGNATURE)

RELINQUISHED BY: (SIGNATURE)

DATE

TIME

Alternate laboratory Name/Location

Phone:
Fax:



10/23/15 Roger Kunkel

Login Sample Receipt Checklist

Client: Weston Solutions, Inc.

Job Number: 680-118167-1

Login Number: 118167

List Number: 1

Creator: Daughtry, Beth A

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Weston Solutions, Inc.

Project/Site: Gold King Mine - Region 8

TestAmerica Job ID: 680-118167-1

Laboratory: TestAmerica Savannah

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Colorado	State Program	8	N/A	12-31-15

1

2

3

4

5

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7

8

9

10

11

12